

Question	Answer
10.	8
11.	18
12.	33.9 in.
13.	$x = 48; y = 24\sqrt{3}$
14.	$x = 5\sqrt{3}; y = 15$
15.	$x = \frac{2\sqrt{3}}{3};$ $y = \frac{4\sqrt{3}}{3}$
16a.	9 ft
16b.	30 ft
17.	Perimeter: $(12 + 12\sqrt{2})$ in.; area: $36 \text{ in}^2$
18.	Perimeter: $(42 + 14\sqrt{3})$ cm; area: $98\sqrt{3} \text{ cm}^2$
20.	Perimeter: 12 ft; area: $4\sqrt{3} \text{ ft}^2$

Question	Answer
23.	No; possible answer: if the $\angle$ measures are in the ratio 1:2:3, then the measures of the $\angle$ are $30^\circ$ , $60^\circ$ , and $90^\circ$ , and the $\triangle$ is a $30^\circ$ - $60^\circ$ - $90^\circ$ $\triangle$ . Assume the length of the shortest leg is 1. Then the length of the hyp. is 2, and the length of the longer leg is $\sqrt{3}$ . So the side lengths would be in the ratio $1:\sqrt{3}:2$ .
26.	$(-1, -4 + 5\sqrt{3})$
29a.	640 mi
29b.	453 mi
29c.	234 mi